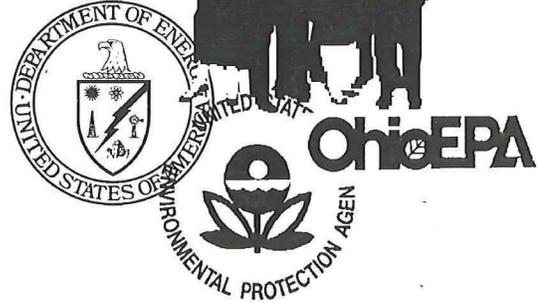


Environmental
Restoration
Program

*Mound Site
CERCLA
Reading Room Copy*



Miamisburg Closure Project CLOSEOUT REPORT

Building 89 (Demolition)

Final
July 2003

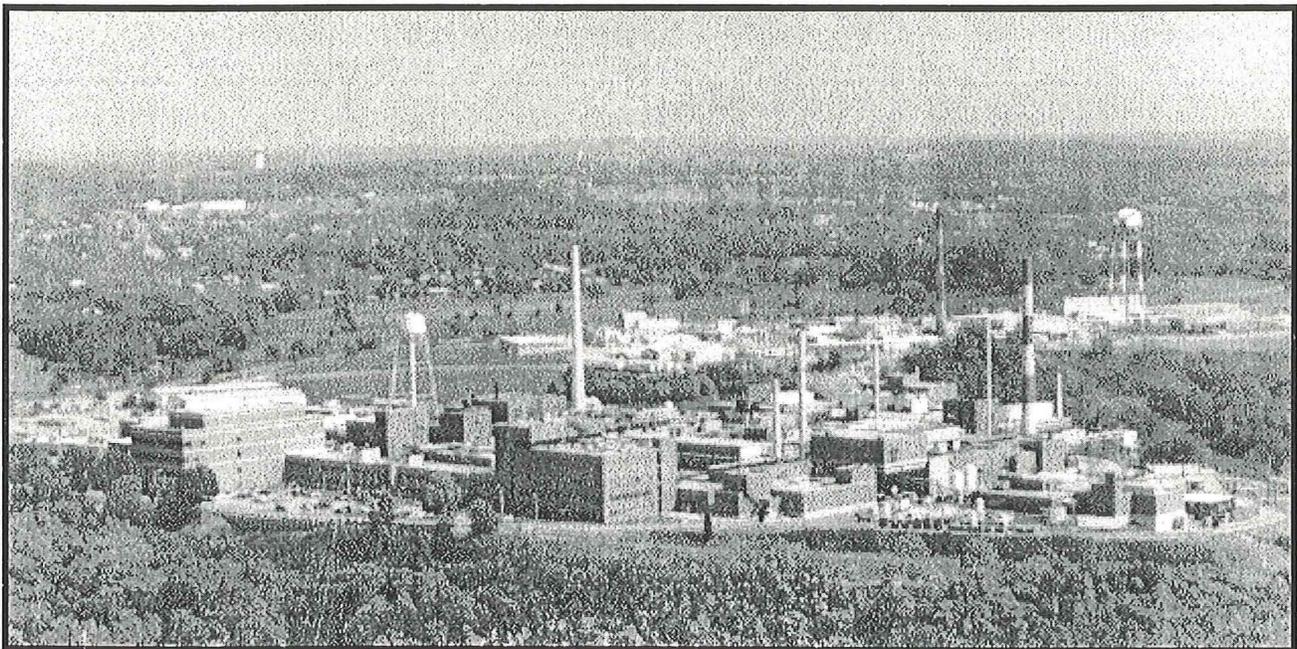


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1.0 PURPOSE

This is the final report documenting completion of the demolition of Building 89 located at the DOE Miamisburg Closure Project (MCP) Site, as shown in the figures provided in Appendix A. The building demolition, including its slab and footers, was accomplished per the Work Package for Building 89 Demolition #SMPP/TFV-35222-00, a copy of which was included in Appendix O of the Building Data Package for Building 89. The scope of work relating to this building is considered complete.

2.0 BACKGROUND

2.1 Building 89

Building 89 was constructed in 1985 on the western edge of the site (Figure 1). The building was a two-story, 4,830 square-foot structure, constructed of reinforced concrete block and (in some locations) poured concrete walls. The roof structure was of a typical metal joist and ribbed deck with a built-up membrane roof. The basement or lower floor of the structure consisted of one room (mechanical room) located on the southern third of the structure, with the remaining two-thirds of the area underlying the first floor being unexcavated. The first floor was a storage and processing area. Building 89 has not had any additions constructed onto it, and remained at the "as constructed" square footage.

The building was serviced by stormwater service lines, a fire sprinkler water main, a potable water line, and electric service of 480 volts. The building used central steam for heating and a refrigeration unit for cooling. Heat and cooling were distributed through a central air handling unit. Building 89 had no sanitary services.

2.2 Potential Release Sites (PRs)

As a result of the investigations and documentation accomplished to comply with the CERCLA (Superfund) cleanup process via the Federal Facilities Agreement (FFA)/Department of Energy (DOE) Environmental Restoration (ER) Program, DOE and the site contractor tabulated all the PRs identified under the various regulatory programs in effect at the site. Of these 440 PRs, two are near Building 89 (see Table 1).

Table 1: PRSs in Proximity to Building 89

PRS	CERCLA or Bldg. Related	Binning Status	Comments
91*	CERCLA	Further Assessment (FA)*	Main Hill Seep 0601.
239	CERCLA	No Further Assessment (NFA)	Site Survey Project Potential Hot Spot Locations S0208.

**PRS 91, or Main Hill Seep 0601, is a site on the hillside west of and down gradient from Building 89 where subsurface groundwater exits the soil. PRS 91 was binned FA because effluent from the seep exceeds the maximum contaminant level (MCL) that is acceptable for material in drinking water. The Environmental Compliance and Analytical Services group is monitoring and will continue to monitor Main Hill Seep 0601 until the effluent is within acceptable limits (below MCL). PRS 91 will not have an impact on the demolition of Building 89, and conversely, the demolition of Building 89 will not affect PRS 91.*

3.0 ACTIONS TAKEN

The Building 89 Building Data Package (BDP) was submitted for simultaneous Core Team and public review on 9 April 2003, and the 30-day public review period concluded on 8 May 2003.

This Closeout Report documents the completion of the demolition and removal of Building 89. All preparation and demolition activities were performed in accordance with the detailed Work Plan to perform demolition and debris removal.

A Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) study of Building 89 was performed prior to demolition. The study report (provided in the final BDP) provides details of the survey design and results, and indicates that Building 89 met applicable surface release criteria. Post-demolition surveys showed no elevated readings (copies are provided in Appendix B).

Initially some building debris was taken to the onsite concrete crusher, but after encountering a greater than expected volume of reinforcing bars in the concrete, the majority of the building debris was loaded into haulers and taken to a local sanitary landfill.

The demolition of Building 89 commenced on 14 May 2003 and was completed on 12 June 2003. Site restoration was completed on 10 July 2003. Photographs taken before, during, and after demolition are provided in Appendix A.

Table 2 - Materials Disposition

Building 89 Material	Quantity	Method	Location
Construction Debris (concrete and rebar)	1,260 cubic yards	Landfill	Stoney Hill
Concrete	450 cubic yards	Concrete Crusher	Mound

4.0 PROBLEMS ENCOUNTERED

Building 89 was successfully demolished per the Work Package, with no variances reported.

5.0 RESOURCES COMMITTED

5.1 Personnel Organization

Table 3 lists the personnel organization for the demolition.

Table 3 - Personnel Organization for the Demolition

Agency or Party Involved	Contact	Description of Participation
US EPA (SR-6J) 77 W. Jackson Chicago, IL 60604 312-886-7058	David Seely	Federal agency responsible for MCP oversight.
Ohio EPA 410 E. Fifth Street Dayton, OH 45402-2911 937-285-6468	Brian Nickel	State agency responsible for MCP oversight.
DOE/ MCP P.O. Box 66 1 Mound Road Miamisburg, OH 45343-0066 937-865-3620	Frank Schmaltz	DOE/ MCP Project Manager responsible for project oversight and success.
CH2M Hill Mound, Inc. SMPP-TFV Project P.O. Box 3030 1 Mound Road Miamisburg, OH 45343-3030 937-865-4169	Kurt Kehler	Provided the DOE/ MCP Project Manager with technical assistance, administrative support, sampling, decontamination, photo and site documentation, site safety, and report preparation.

Table 3 - Personnel Organization for the Demolition

Agency or Party Involved	Contact	Description of Participation
CH2M Hill Mound, Inc. General Superintendent and Equipment Manager P.O. Box 3030 1 Mound Road Miamisburg, OH 45343-3030 937-865-4278	Max Edington	Provided the equipment necessary for the demolition.

5.2 Demolition Cost

Under the new site contract, CH2M Hill, Inc. has elected to cluster financial data for multiple buildings together. However, for Building 89, the cluster only includes Building 89. The total cost for the demolition of Building 89 cluster is reported in Table 4.

Table 4 - Cluster 89 Total Cost

Activity	Cost
Work Planning	\$15K
Demolition	\$55K
Total	\$70K

APPENDIX A

Figures

Figure 2 - Building Photos



Bldg. 89

A206 S



Bldg. 89 During Demolition

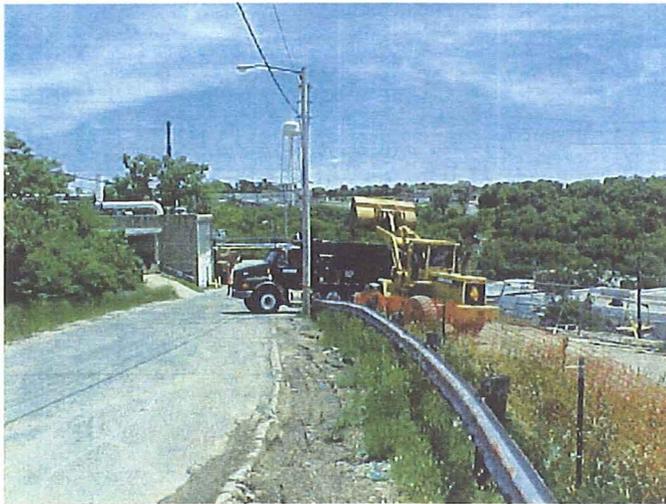


Bldg. 89 Slab After Building Demolition

A 306 S



Bldg. 89 Debris Loadout



Bldg. 89 Grading Before Seeding

A4 of 5



Bldg. 89
After Final Grading and Seeding

ASMS

APPENDIX B

**Post-Final Status Survey Report
Radiological Surveys**

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM)	BUILDING 89	SURVEY NO.	03-TF-0124
PURPOSE:	SURVEY CONCRETE SLAB FOR RELEASE TO WASTE MANAGEMENT	RWP NO.	N/A
		DATE:	06-05-03
		TIME:	1500

MAP / DRAWING

SMears 1-20 ON MISC. CONCRETE

COPY

INTEGRATED COUNT TAKEN IF AUDIBLE DETECTED. NO AUDIBLE DETECTED
 ALL DIRECT READINGS INDICATE <math>< 100 \text{ dpm}/100 \text{ cm}^2</math> ALPHA AND <math>< 5000 \text{ dpm}/100 \text{ cm}^2</math> BETA
 BICRON FIDLER USED FOR INDICATION ONLY. RESULTS WERE NON-DETECTABLE

LEGEND:

- # = mrem/hr (γ) whole body
- #E = mrem/hr ($\beta + \gamma$) extremity on contact
- K = factor of 1000
- = radiological boundary
- \triangle # = mrem/hr neutron
- # = swipe number
- # = air sample number
- # α or β = direct contamination measurement in dpm/100 cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
2360/4393	5695/5844	4.17.04
FIDLER	3638/3960	4.28.04
N/A		

Completed by: (Signature)	HP#	Date:
Completed by: (Print Name)		06-09-03
Counted by: (Signature)	HP#	Date:
Counted by: (Print Name)		SEE ATTACHED
Reviewed/Approved by: (Signature)	HP#	Date:
Reviewed/Approved by: (Print Name)		6-9-03

R1264

Alpha/Beta Analysis

Unit Type: LB4100/W
 Counting Unit ID: Green
 Data file name: SMEAR014
 Batch Ended: 6/5/2003 15:39
 Recalibration Date: 3/24/2005
 Serial Number: 64575

Batch ID: RILEY 03-TF-124 A/B (20) AG

Detector ID	Sample ID
A1	1
A2	2
A3	3
A4	4
B1	5
B2	6
B3	7
B4	8
C1	9
C2	10
C3	11
C4	12
D1	13
D2	14
D3	15
D4	16

Alpha Activity		
DPM	σ	flags
0.0	1.9	
0.0	1.9	
0.0	1.9	
0.0	1.9	
0.0	2.0	
0.0	2.2	
0.0	2.0	
0.0	1.9	
0.0	2.0	
0.0	1.9	
0.0	1.9	
0.0	1.8	
0.0	2.0	
0.0	2.1	
0.0	2.0	
0.0	2.0	

Beta Activity		
DPM	σ	flags
3.3	2.5	
0.0	1.7	
0.0	1.7	
0.0	1.2	
1.6	2.9	
4.4	2.9	
3.8	3.1	
0.0	1.3	
0.0	1.2	
0.0	1.2	
0.6	1.7	
0.0	1.2	
0.0	1.3	
1.1	1.7	
0.0	1.2	
0.0	1.2	

B 3264

al

J. Collins

COPY

3264

Alpha/Beta Analysis

Unit Type: LB4100/W
Counting Unit ID: Green
Data file name: SMEAR004
Batch Ended: 6/9/2003 7:21
Recalibration Date: 3/24/2005
Serial Number: 64375

Batch ID: RILEY 03-TF-0124 [20] JC

Detector ID	Sample ID
A1	17
A2	18
A3	19
A4	20

Alpha Activity		
DPM	σ	flags
0.0	1.9	
0.0	1.9	
0.0	1.8	
0.0	1.9	

sd

Beta Activity		
DPM	σ	flags
0.0	1.2	
0.0	1.2	
0.0	1.2	
0.0	1.2	

sd

B4764

J. Collins

R. Bet